



# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/WNo.15/KRIDL/CUBE/2014-15



22.08.2014

## TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Technical Manager (West), KRIDL, Bangalore.**

Name of the work : **Construction and Improvements of RCC Roads and drains at road adjacent to Ramachandra Hospital 4th Main, 3rd Cross Road in Ward No. 15, Dasarahalli, BBMP, Bangalore.**

Reference : **EE/DD/WO/123/2014-15 Dated: 03.07.2014**

Sample ID : **Cement Concrete**

Size of cubes : **150mmx150mmx150mm**

Cross Sectional Area : **22500 mm<sup>2</sup>**

Technical Reference : **IS: 516-1959 (Reaffirmed 2008)**

Grade of Concrete : **M<sub>20</sub>**

Compressive Strength as on : **28<sup>th</sup> day**

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-----------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 25.07.2014      | 22.08.2014      | 8.188               | 512.6             | 22.78                                     |
| 2      | 25.07.2014      | 22.08.2014      | 8.250               | 495.8             | 22.04                                     |
| 3      | 25.07.2014      | 22.08.2014      | 8.310               | 508.6             | 22.60                                     |

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

*(Signature)*  
Authorized Signatory  
22/08/2014  
22/08/2014

*(Signature)*  
**M/s. Civil-Tech Consultants & Engineers**  
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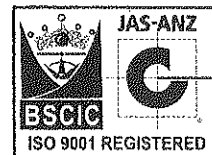


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Job No.: CTCE/BBMP/WNo.15/KRIDL/Precast Slab/2014-15

30.07.2014

## TEST REPORT ON CONCRETE CORE (PRECAST SLAB)



Name of Client : Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Name of the Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Name of work : Construction and Improvements of RCC Roads and drains at road adjacent to Ramachandra Hospital 4th Main, 3rd Cross Road in Ward No. 15, Dasarahalli, BBMP, Bangalore.

Reference : EE/DD/WO/123/2014-15 Dated: 03.07.2014

No. of Sample Tested : 03

Date of Testing : 30.07.2014

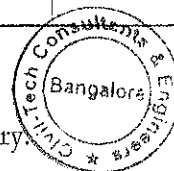
Technical Reference : IS:516-1959 (Reaffirmed 2008), SP-24:1983.

Grade of Concrete : M<sub>20</sub>

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / m <sup>3</sup> ) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength (N/mm <sup>2</sup> ) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength (N/mm <sup>2</sup> ) | Equivalent Cube Compressive Strength (N/mm <sup>2</sup> ) |
|---------|--------------------|-----------------------|--------------|----------------------------------------|-------|----------------------------------|-------------------|------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| 1       | 50.00              | 81.00                 | 0.402        | 2527.62                                | 1.62  | 0.955                            | 31.6              | 16.07                              | 17.36                                                        | 16.58                                                        | 20.72                                                     |
| 2       | 50.00              | 82.00                 | 0.408        | 2534.06                                | 1.64  | 0.965                            | 31.9              | 16.27                              | 17.57                                                        | 16.95                                                        | 21.19                                                     |
| 3       | 50.00              | 83.00                 | 0.412        | 2528.07                                | 1.66  | 0.960                            | 32.5              | 16.53                              | 17.85                                                        | 17.14                                                        | 21.43                                                     |

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*[Signature]*  
 TECHNICAL MANAGER (WEST)  
 KRIDL, BBMP, BANGALORE

*[Signature]*  
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